DEFENSE HEALTH INFORMATION MANAGEMENT SYSTEM



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Module 5: Data Exchange

Table of Contents

		oduction			
2.	Objectives				
	Communications Requirements of PMITS PlexusD				
	Exchanging Data with Other PMITS PlexusD Systems				
		Send Data Exchange File Via Disk			
	4.2	Send Data Exchange File Via E-mail	8		
	4.3	Send Data Exchange File Via Internet	10		
	4.4	Send Data Exchange File Via Modem	11		
	4.5	Send Data Exchange File Via EF	13		
	4.6	Receiving Data Exchange File Via Disk			
	4.7	Data Exchange History Grid	16		
	4.8	Import a Descriptors File			
5.	Student Evaluation		18		
	5.1	Knowledge	18		
	5.2	Scenario	18		
6. Conclusion			19		

LESSON PLAN FOR MODULE 5: DATA EXCHANGE

Instructor Preparation Guidelines

Prior to conducting this module, ensure the latest version of PMITS PlexusD is installed on all laptops.

Ensure example user ID has at least Level 3 privileges so students can access the information needed in this module.

Review the materials and make sure the data sets on each workstation are complete so students can participate in the practice exercises.

Ensure each student has access to the PMITS PlexusD System User Manual and the PMITS PlexusD Workstation System Administration Guide in soft or hard copy.

Estimated Time

The estimated time for this module is one hour. It may take more time as there are opportunities for discussion and several hands-on activities.

Objectives

At the end of this module, student will be able to accomplish the following:

- Describe the communications requirements of the PMITS PlexusD application on the workstation and the web.
- Describe and access the various methods for exchanging data with other systems.
- Describe and access the method for receiving data from other systems.

Student Evaluation

At the end of this module, direct the students to individually complete the set of questions and the scenario provided in their Student Guide, Student Evaluation section. Review the answers and the scenario procedure when all students have completed the evaluation.

1. Introduction

The **Data Exchange** process allows you to send and receive asset tracking data between other PMITS PlexusD Automated Information System (AIS) devices.

You may select to either send or receive data.

The following topics are covered in this module:

- The communications requirements of the PMITS PlexusD application on the workstation and the web.
- Accessing the methods for exchanging data files with other users.
- Accessing the method for receiving data exchange files.

2. Objectives

At the end of this module, you will be able to accomplish the following:

- Describe the communications requirements of the PMITS PlexusD application on the workstation.
- Describe and access the various methods for exchanging data with other systems.
- Describe and access the method for receiving data from other systems.

3. Communications Requirements of PMITS PlexusD

Data Exchange files can be sent via, disk, e-mail, Internet (HTTP), modem, or Expeditionary Framework (EF). (All options may not be available.)

For instructions on selecting which Data Exchange methods to allow, refer to the PMITS PlexusD System Administration Guide for the Workstation.

Requirements are as follows:

- Analog Phone Line An analog phone line is necessary if your site plans on sharing data from your workstation via modem and phone line.
- Internet connection on the PMITS
 PlexusD Workstation An internet
 connection is necessary if your site plans on sharing data from your workstation via internet.

The system is capable of storing phone numbers, e-mail addresses, and Web URL's so that you are not required to input this information each time a Data Exchange file is sent.

Note: The PMITS PlexusD Website can be accessed from any computer with an internet connection and .mil access. (The website does not have to be accessed from a PMITS PlexusD Single Site or Data Collection Hub Workstation.)

Instructor Notes

Confirm the students know who their PMITS PlexusD System Administrator will be.

4. Exchanging Data with Other PMITS PlexusD Systems

The **Data Exchange** selection allows you to send and receive data between other PMITS PlexusD AIS devices.

To send, select the method of sending, e.g., disk, Internet (HTTP), or modem. Select the target device for which the data exchange file is being created, and then select a directory on the computer to hold the file until the file transfer is completed, i.e., browse a storage directory for disk, a Web Uniform Resource Locator (URL) for Internet (HTTP), or the phone number for modem. You initiate the process and are notified when the process is complete.

The system only sends the records that have been changed since the last time a Data Exchange file was sent to that user. The system keeps track of this by logging a **Last Transfer Date** for the device (in the **Setup** section in the **Devices** tab) each time a Data Exchange file is made for them.

Note: It is important that the **Last Transfer Date** be set the first time you send to a new device to avoid sending the entire database (which the other device will already have). For information on setting the **Last Transfer Date** when sending to a new device for the first time, see the PMITS PlexusD System User Manual.

4.1 Send Data Exchange File Via Disk

Step

Insert a USB drive into the computer and sign on to PlexusD.



Result

The **PlexusD** main menu appears as shown in Figure 5-1.

Instructor Notes

Confirm the students have access to the PMITS PlexusD System Users Manual.

Instructor Notes

Discuss with students the use of USB drives to save data files.

Step Result

2. Click [Data Exchange].
See Figure 5-1.

The **Data Exchange** drop down menu appears as shown in Figure 5-2.



Figure 5-1. Data Exchange Selected on the Main Menu Screen



Figure 5-2. Data Exchange Drop Down Menu

	Step	Result
3.	Click [Send]. See Figure 5-2.	The Data Exchange screen appears as shown in Figure 5-3.
4.	Click [Disk] from the Method drop down menu. See Figure 5-3.	Disk appears in the Method field.

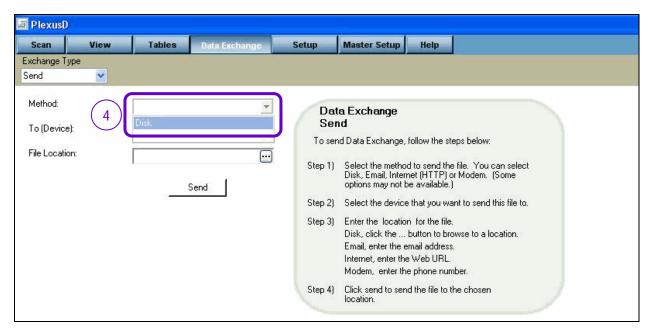


Figure 5-3. Method Drop Down Menu on the Data Exchange Screen

Note: If there is an entry in the history grid at the bottom of the screen (see Figure 5-4) with the appropriate **To (Device)**, **Method**, and **File To**, you can click the entry to automatically populate the fields.

Instructor Notes

Have students locate the history grid area on their screen. (It may or may not be blank.)



Result

Figure 5-4. History Grid

Step

5. Click [Device] and select the Device to which data will be sent. See Figure 5-5. 6. Click [...] next to File Location to select where the file will be saved to. See Figure 5-6.

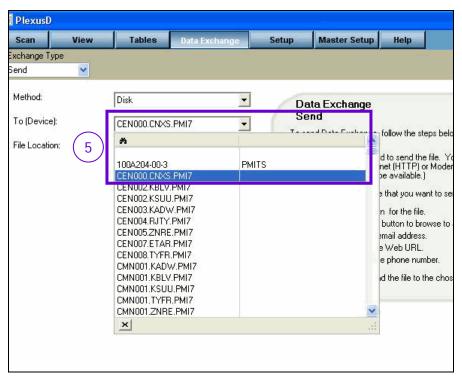


Figure 5-5. Device Name Screen

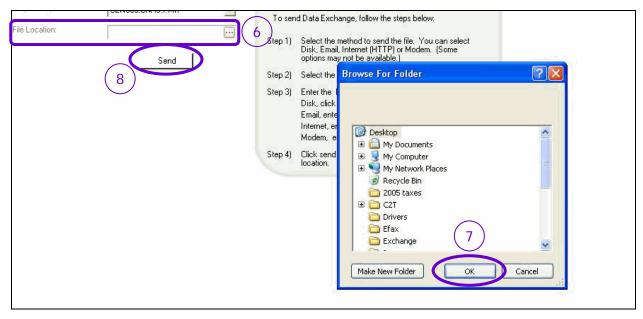


Figure 5-6. File Location and Browse for Folder Screen

Step

7. Browse to the desired location. (If necessary, a new folder can be created.) Click the location and click

[**OK**]. See Figure 5-6.

8. Click [**Send**]. See Figure 5-6.

Result

The dialog box goes away and the selected location is displayed in the **File Location** field.

The bottom left-hand corner will show the progress of the file being created, the **Send Complete** box appears (see Figure 5-7), and the file appears in the history grid as shown in Figure 5-8.

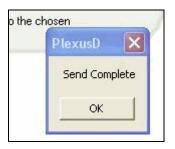


Figure 5-7. Send Complete Box



Figure 5-8. History Grid with File

4.2 Send Data Exchange File Via E-mail

Sending a Data Exchange file via e-mail requires internet access (on the laptop with the **PMITS PlexusD** application).

The Email settings must also be setup in the **Data Exchange** section in the **Setup** menu. For instructions on selecting the E-mail settings, refer to the DMLSS PMITS PlexusD System Administration Guide for the Workstation.

Follow Steps 1 and 2 above.

Step

Result



 Click [Email] on the Method options.
 See Figure 5-9. **Email** appears in the **Method** field.

Select the To
 (Device) from the drop down menu.

 See Figure 5-10.

The **To (Device)** selection appears.

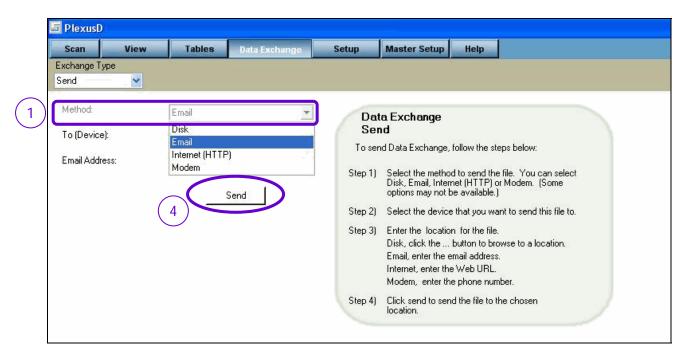


Figure 5-9. E-mail Option Selected on the Data Exchange Screen

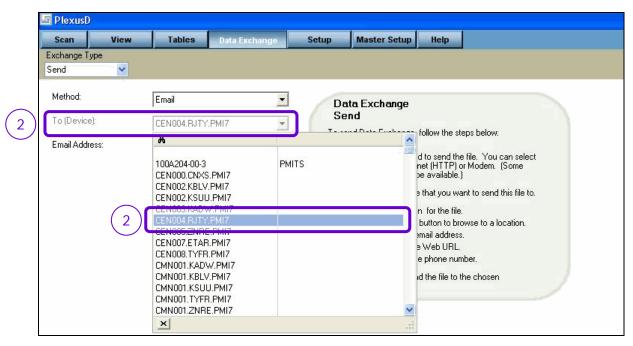


Figure 5-10. To (Device) Selection Made

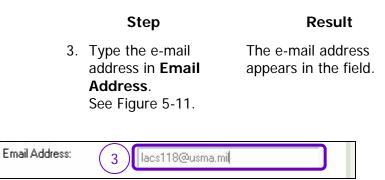


Figure 5-11. Email Address Box

Note: If the e-mail address has been setup for the selected device, the **Email Address** will populate automatically once the **To (Device)** is selected.

Step	Result
4. Click [Send]. See Figure 5-9.	The Send Complete box appears and the file is shown in the history grid.

4.3 Send Data Exchange File Via Internet

When you send a Data Exchange file via the Internet (HTTP), the application will also receive a file back from the device it is sending to during the connection.

The following are requirements for Internet exchange:

- The laptop must have an internet connection.
- You must know the appropriate Web URL to access the intended device.
- The PlexusD Auto Transfer Program must be running (The PlexusD Auto Transfer **Program** is discussed in the PMITS PlexusD System User Manual.).

Follow Steps 1 and 2 above in Section 4.1.

Step

Result



1. Click [Internet (HTTP)] on the Method options.

See Figure 5-12.

2. Select [Internet (HTTP)] from the To (Device) drop down menu. See Figure 5-12.

Internet (HTTP) appears in the **Method** field.

The selection appears.

Instructor Notes

Review the information on Auto Transfer in the PMITS PlexusD System User Manual with the students.

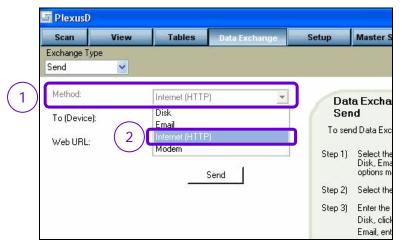


Figure 5-12. Method and To (Device) Selections Made

Step Result 3. Type the Web URL in the Web URL field. See Figure 5-13. 4. Click [Send]. The PlexusD Auto Transfer window appears.

Note: The program will establish the HTTP connection, create the Data Exchange file, prepare to send, upload to the server, download the new server Data Exchange file, and import the received file. When the file is complete, a PlexusD message box will appear saying, **Send Complete**.

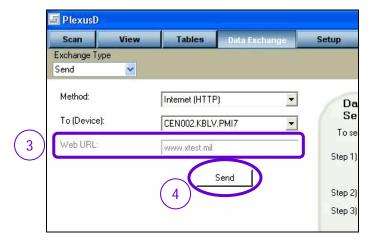


Figure 5-13. Web URL Selection

4.4 Send Data Exchange File Via Modem

When you send a Data Exchange file via a modem, the application will also receive a file back from the device it is sending to during the connection.

The following are requirements for modem exchange:

- An analog (non-digital) phone line must be connected to the laptop.
- You must know the appropriate number to dial to access the line and connect to the intended device.

- The laptop modem must be selected in the Setup section in the Data Exchange tab.
- The PlexusD Auto Transfer Program must be running.

Follow Steps 1 and 2 above in Section 4.1.

Step

Result



 Click [Modem] on the Method options.
 See Figure 5-14. The modem appears in the **Method** field.

Select the To
 (Device) from the
 drop down menu.

 See Figure 5-14.

The **To (Device)** selection appears.

 Type the phone number in the Phone Number field.
 See Figure 5-14. The number appears in the **Phone Number** field.

Instructor Notes

Review with the students the information on Auto Transfer in the PMITS PlexusD System User Manual.

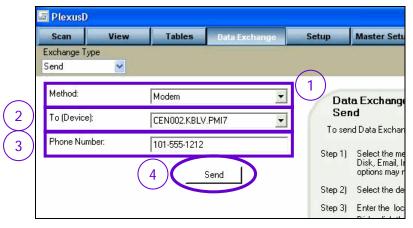


Figure 5-14. Modem and Phone Number Selection Fields

Step

Result

4. Click [**Send**]. See Figure 5-14.

The **PlexusD Auto Transfer** window appears.

Note: The program will create the file, prepare to send, dial, wait for connection, connect, send the file, receive a file, and import the received file. When the file is complete, a PlexusD message box will appear saying, **Send Complete**.

If the connection is not successful, the program will redial 5 times. If the call is still not successful, you can try again by resending.

4.5 Send Data Exchange File Via EF

Sending a Data Exchange file via EF is the same as sending a Data Exchange file via disk except that you will not choose the file location.

The file is automatically saved to the following location, "C:\Program\Files\PlexusD\PCOut\
(DeviceID)" in a folder named to match the device ID for whom the file is being made. If the workstation is loaded with EF, the EF program will retrieve and deliver the file.

4.6 Receiving Data Exchange File Via Disk

To receive data from a disk, select the directory and Data Exchange file to be received and initiate the process. You are also notified when this process is complete.

If you are planning to receive a Data Exchange file directly from a USB drive, insert the USB drive into the workstation.

Step Result



- Click [Receive] from the Data Exchange drop down menu. See Figure 5-15.
- 2. Click [...] next to **File Location**. See Figure 5-15.

Receive screen appears.

The **Data Exchange**

Select the file location dialogue box appears as shown in Figure 5-16.

Instructor Notes

Briefly discuss Expeditionary Framework with the students.

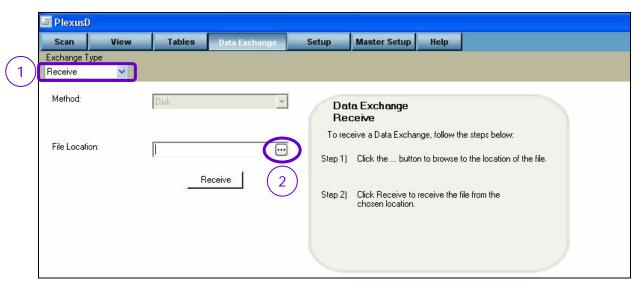


Figure 5-15. Receive Screen

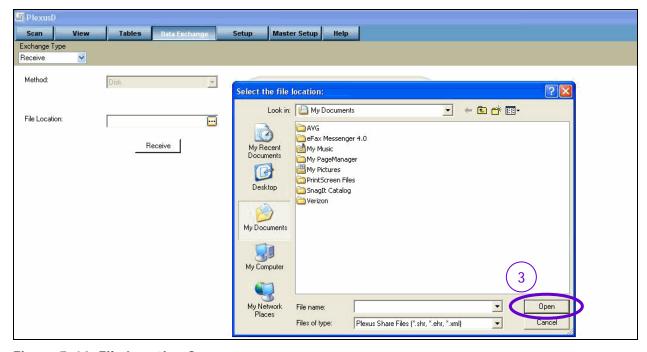


Figure 5-16. File Location Screen

Step Result

3. Browse to the desired location, click the Data Exchange file to be imported and click [Open].

The dialogue box disappears.

Step

Result

4. Click [**Receive**]. See Figure 5-17

The bottom left-hand screen will show the file receive progress. When complete, the **Receive Complete** box will appear as shown in Figure 5-18.

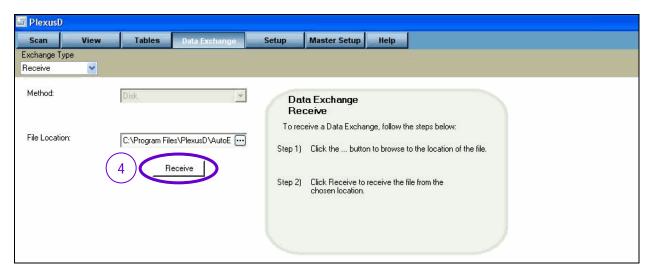


Figure 5-17. Data Exchange Screen with Receive Selected

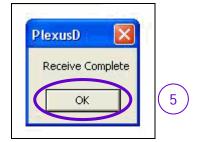


Figure 5-18. Receive Complete Box

Step

Result

5. Click [**OK**]. See Figure 5-18. The dialogue box disappears and the history log displays the data in the grid below as shown in Figure 5-19.



Figure 5-19. History Grid

4.7 Data Exchange History Grid

After you send or receive a Data Exchange file, send or receive information is displayed in the grid at the bottom of the page. The fields and description of each field for both the **Send** and the **Receive** grids are listed below.

Send Grid

- Date The date and time the Data Exchange file was sent.
- **To (Device)** The device that the Data Exchange file was sent to.
- Auto/Manual If the Data Exchange file was sent manually (through the main menu button Data Exchange) or if the Data Exchange file was sent automatically (Automatic Data Exchange Send Events can be scheduled through the main menu button Setup in the Data Exchange tab). If the laptop receives a Data Exchange file via modem from another device, it sends a Data Exchange file back to that device during the connection. When this happens, Auto (Modem Request) will be entered in the Auto/Manual field.
- Method The method that was used to send the Data Exchange file.
- File To This field represents the location where the file was saved, sent to, etc.
 For disk method, File To displays the file location.

For e-mail method, **File To** displays the e-mail address.

For Internet (HTTP) method, **File To** displays the Web URL.

For modem method, **File To** displays the phone number.

For EF method, **File To** displays the file location.

Instructor Notes

Review the screen History grid with the students as you go over the fields.

Receive Grid

The receive grid is the same as the send grid (above) except that it does not include the **To** (**Device**) field.

4.8 Import a Descriptors File

The **Data Exchange** section of the program is capable of receiving a Descriptors file. A Descriptors file contains data to populate a newly installed system (it may also contain data that has been added to the system but has not yet been shared with all of the devices).

Use the same method as Receiving a data exchange file in Section 4.6 above.

PMITS PlexusD

5. Student Evaluation

Ouestion 1: Describe two of the methods that can be used to exchange data files with other system. Ouestion 2: Describe the method for receiving data.

Instructor Notes

Answers:

Question 1 – Students may pick two from disk, EF, modem, and Internet (HTTP).

Question 2 – Students should describe importing a data file.

5.2 Scenario

Create a data exchange file for disk and list below the information that appears in the history grid for			
your action:			

6. Conclusion

This lesson has discussed Data Exchange in PMITS PlexusD.

You have explored the following topics:

- The communications requirements of the PMITS PlexusD application on the workstation.
- Accessing the methods for exchanging data files with other users.
- Accessing the method for receiving data exchange files.

The PMITS PlexusD System Users Manual is also an excellent resource for information on all these topics.

Instructor Notes

Remind students to review the appropriate topics in the PMITS PlexusD System Users Manual for additional information.